Calyx

## PLANT ANATOMY Lecture 6 - Flowers

- L Flower structure composed of four whorls of modified leaves (sepals, petals, stamens, and carpels)
  - A. Receptacle holds it all together
  - B. Sepals (calyx) & petals (corolla) together called the perianth
  - C. Male and female parts
    - 1. Male (androecium) stamen: anther & filament
    - 2. Female (gynoecium) carpel or pistil: stigma, style, & ovary
- **II.** Variations in floral structure
  - A. Completeness of flower
    - 1. Complete flower has all four sets of floral "leaves"
    - 2. Incomplete flower lacks one or more of the four sets
  - B. Perfectness of flower
    - 1. Perfect has both male (staminate) and female (pistillate) parts
      - a) Referred to as monoecious
    - 2. Imperfect lacks either the male or female part
      - a) Referred to as dioecious
  - C. Symmetry of flower
    - 1. Regular or radial- petals are of similar shape and radiate from center of the flower
    - 2. Bilateral parts arranged so that perianth can be divided into two equal parts
    - 3. Irregular
      - a) Whorls with dissimilar flower parts
      - b) Parts do not radiate from center
      - c) Parts not equidistant from each other
  - D. Ovary position
    - 1. Superior ovary gynnoecium (female stuff) is above perianth and androecium (other stuff)
    - 2. Inferior ovary ovary appears to be below the perianth and stamens

## III. Monocot vs. dicot

- A. Monocots in units of 3's
- B. Dicots in units of 4's or 5's

## FLOWER

## Receptacle

Sepals

			Perianth
		Petals	Corolla
	Male		Female
	Androecium		Gynoecium
	Several stamens		Several united carpels
Anther	Filament		Pistil
		Stigma	Style Ovary